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AMENDMENTS TO THE CLAIMS

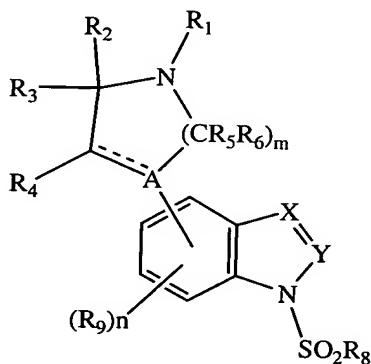
This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Cancelled)

3. - 6. (Cancelled)

7. (Currently amended) A method for the treatment of a disorder of the central nervous system related to or affected by the 5-HT₆ receptor wherein said disorder is selected from the group consisting essentially of: schizophrenia and depression; in a patient in need thereof which comprises administering to said patient a therapeutically effective amount of a compound of formula I.



(I)

wherein

A is N;

X is CR₁₁ or N;

Y is CR₇ or N with the proviso that when X is N, then Y must be CR₇;

R₁ is H, C₁-C₆alkylcarbonyl, C₁-C₆alkylcarbonyloxy or an C₁-C₆alkyl, C₁-C₆alkenyl, C₁-C₆alkynyl or cycloheteroalkyl group each optionally substituted;

R₂, R₃, R₄, R₅ and R₆ are each independently H, halogen, OH or an optionally substituted C₁-C₆alkyl group;

~~R₇ and R₁₁ are each independently~~ is H, halogen or an C₁-C₆alkyl, aryl, heteroaryl or C₁-C₆alkoxy group each optionally substituted;

R₈ is an C₁-C₆alkyl, aryl or heteroaryl group each optionally substituted;

R₉ is H, halogen or an C₁-C₆alkyl, C₁-C₆alkoxy, C₁-C₆alkenyl, aryl or heteroaryl group each optionally substituted;

R₁₀ is H, OH or an optionally substituted C₁-C₆alkoxy group;

m is an integer of 2;

n is 0 or an integer of 1, 2 or 3; and

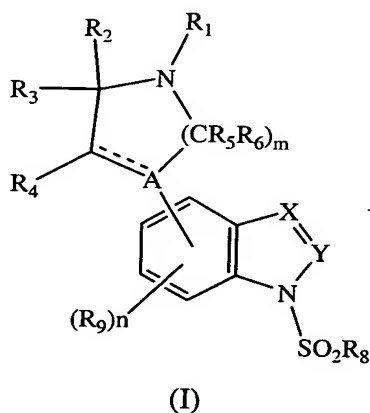
--- represents a single bond or a double bond; or a pharmaceutically acceptable salt thereof.

12. (Cancelled)

14. - 17. (Cancelled)

18. (Currently Amended) A method for the preparation of a compound of formula

I.



wherein

A is N;

X is CR₁₁ or N;

Y is CR₇ or N with the proviso that when X is N, then Y must be CR₇;

R₁ is C₁-C₆alkylcarbonyl, C₁-C₆alkylcarbonyloxy or an C₁-C₆alkyl, C₁-C₆alkenyl, C₁-C₆alkynyl or cycloheteroalkyl group each optionally substituted;

R₂, R₃, R₄, R₅ and R₆ are each independently H, halogen, OH or an optionally substituted C₁-C₆alkyl group;

~~R₇ and R₁₁ are each independently~~ is H, halogen or an C₁-C₆alkyl, aryl, heteroaryl or alkoxy group each optionally substituted;

R₈ is an C₁-C₆alkyl, aryl or heteroaryl group each optionally substituted;

R_9 is H, halogen or an C_1 - C_6 alkyl, C_1 - C_6 alkoxy, C_1 - C_6 alkenyl, aryl or heteroaryl group each optionally substituted;

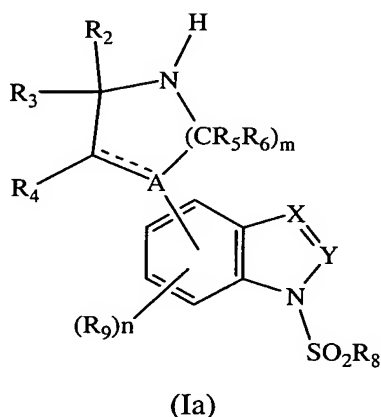
R_{10} is H, OH or an optionally substituted C_1 - C_6 alkoxy group;

m is an integer of 2;

n is 0 or an integer of 1, 2 or 3; and

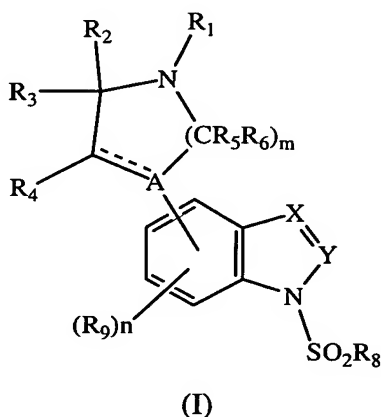
--- represents a single bond or a double bond

said method which comprises reacting a compound of formula Ia



wherein A, X, R_2 , R_3 , R_4 , R_5 , R_6 , R_7 , R_8 , R_9 , m and n are as defined hereinabove for formula I with a compound R_1 -Hal wherein R_1 is as defined hereinabove for formula I and Hal is Cl, Br or I.

19. (Currently Amended) A compound of formula I



wherein

A is N;

X is CR_{11} ;

Y is N;

R₁ is H, C₁-C₆alkylcarbonyl, C₁-C₆alkylcarbonyloxy or an C₁-C₆alkyl, C₁-C₆alkenyl, C₁-C₆alkynyl or cycloheteroalkyl group each optionally substituted;

R₂, R₃, R₄, R₅ and R₆ are each independently H, halogen, OH or an optionally substituted C₁-C₆alkyl group;

R₁₁ is H, halogen or an C₁-C₆alkyl, aryl, heteroaryl or C₁-C₆alkoxy group each optionally substituted;

R₈ is an C₁-C₆alkyl, aryl or heteroaryl group each optionally substituted;

R₉ is H, halogen or an C₁-C₆alkyl, C₁-C₆alkoxy, C₁-C₆alkenyl, aryl or heteroaryl group each optionally substituted;

R₁₀ is H, OH or an optionally substituted C₁-C₆alkoxy group;

m is an integer of 2;

n is 0 or an integer of 1, 2 or 3; and

~~----~~ represents a single bond ~~or a double bond~~; or
a pharmaceutically acceptable salt thereof.

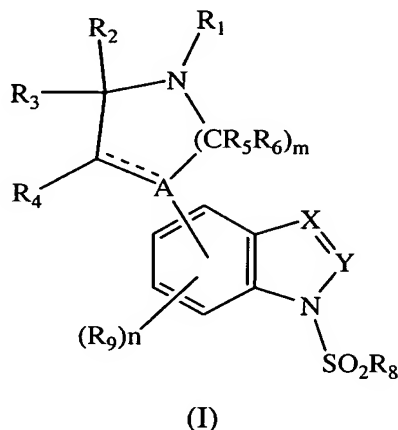
20. (Previously presented) The compound according to claim 19 wherein R₈ is an optionally substituted phenyl group.

21. (Previously presented) The compound according to claim 19 selected from the group consisting of:

1-(phenylsulfonyl)-5-piperazin-1-yl-1H-indazole;
1-(phenylsulfonyl)-6-piperazin-1-yl-1H-indazole;
1-[(2-bromophenyl)sulfonyl]-6-piperazin-1-yl-1H-indazole;
1-[(4-bromophenyl)sulfonyl]-5-piperazin-1-yl-1H-indazole;
1-[(4-bromophenyl)sulfonyl]-6-piperazin-1-yl-1H-indazole;
1-[(5-bromothiophen-2-yl)sulfonyl]-5-piperazin-1-yl-1H-indazole;
1-[(5-bromothiophen-2-yl)sulfonyl]-6-piperazin-1-yl-1H-indazole;
1-[(4-fluorophenyl)sulfonyl]-5-piperazin-1-yl-1H-indazole;
1-[(4-fluorophenyl)sulfonyl]-6-piperazin-1-yl-1H-indazole;
methyl 4-[(5-piperazin-1-yl-1H-indazol-1-yl)sulfonyl]phenyl ether;
1-phenylsulfonyl-4-(4-propylpiperazin-1-yl)-1H-indazole;
1-phenylsulfonyl-4-piperazin-1-yl-1H-indazole;
1-phenylsulfonyl-4-(4-phenethylpiperazin-1-yl)-1H-indazole;

1-phenylsulfonyl-4-[4-(3-phenylpropyl)-piperazin-1-yl]-1H-indazole; and
the pharmaceutically acceptable salts thereof.

22. (Currently Amended) A pharmaceutical composition which comprises a
pharmaceutically acceptable carrier and an effective amount of a compound of formula I.



wherein

A is N;

X is CR₁₁;

Y is N;

R₁ is H, C₁-C₆alkylcarbonyl, C₁-C₆alkylcarbonyloxy or an C₁-C₆alkyl, C₁-C₆alkenyl,
C₁-C₆alkynyl or cycloheteroalkyl group each optionally substituted;

R₂, R₃, R₄, R₅ and R₆ are each independently H, halogen, OH or an optionally
substituted C₁-C₆alkyl group;

R₁₁ is H, halogen or an C₁-C₆alkyl, aryl, heteroaryl or C₁-C₆alkoxy group each
optionally substituted;

R₈ is an C₁-C₆alkyl, aryl or heteroaryl group each optionally substituted;

R₉ is H, halogen or an C₁-C₆alkyl, C₁-C₆alkoxy, C₁-C₆alkenyl, aryl or heteroaryl
group each optionally substituted;

R₁₀ is H, OH or an optionally substituted C₁-C₆alkoxy group;

m is an integer of 2;

n is 0 or an integer of 1, 2 or 3; and

--- represents a single bond or a double bond; or

a pharmaceutically acceptable salt thereof.

23. (Previously presented) The composition according to claim 22 having a
compound of formula I selected from the group consisting of:

1-(phenylsulfonyl)-5-piperazin-1-yl-1H-indazole;
1-(phenylsulfonyl)-6-piperazin-1-yl-1H-indazole;
1-[(2-bromophenyl)sulfonyl]-6-piperazin-1-yl-1H-indazole;
1-[(4-bromophenyl)sulfonyl]-5-piperazin-1-yl-1H-indazole;
1-[(4-bromophenyl)sulfonyl]-6-piperazin-1-yl-1H-indazole;
1-[(5-bromothien-2-yl)sulfonyl]-5-piperazin-1-yl-1H-indazole;
1-[(5-bromothien-2-yl)sulfonyl]-6-piperazin-1-yl-1H-indazole;
1-[(4-fluorophenyl)sulfonyl]-5-piperazin-1-yl-1H-indazole;
1-[(4-fluorophenyl)sulfonyl]-6-piperazin-1-yl-1H-indazole;
methyl 4-[(5-piperazin-1-yl-1H-indazol-1-yl)sulfonyl]phenyl ether;
1-phenylsulfonyl-4-(4-propylpiperazin-1-yl)-1H-indazole;
1-phenylsulfonyl-4-piperazin-1-yl-1H-indazole;
1-phenylsulfonyl-4-(4-phenethylpiperazin-1-yl)-1H-indazole;
1-phenylsulfonyl-4-[4-(3-phenylpropyl)-piperazin-1-yl]-1H-indazole; and
the pharmaceutically acceptable salts thereof.